



Tempe South Project Update

MAG Regional Council

December 8, 2010





Tempe South Study Area

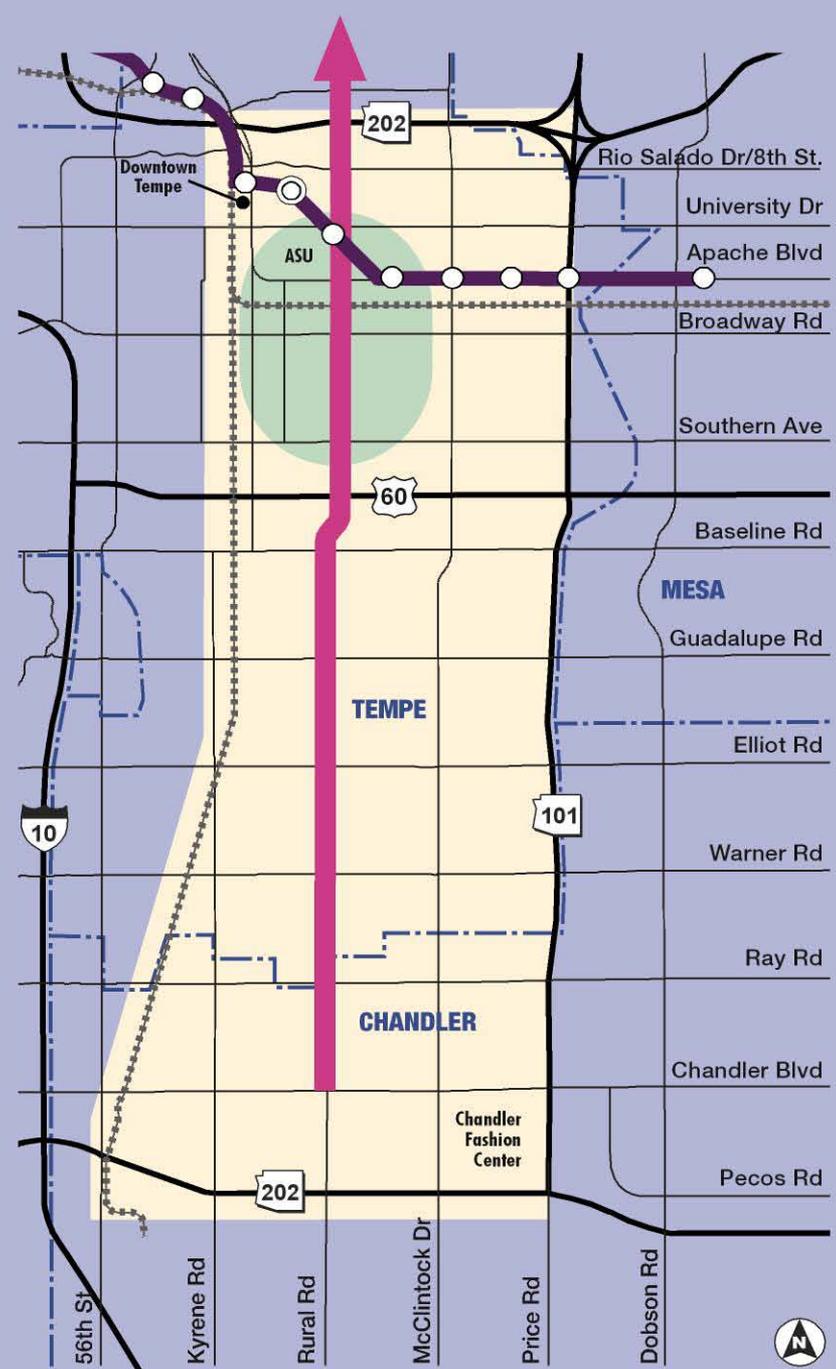
Proposition 400 sales tax (2004) included two projects per the MAG Regional Transportation Plan:

- High Capacity Transit: 2 miles
- FUNDED
- Rural Rd Bus Rapid Transit: 12 miles
- UNFUNDED - Prop 400 revenue shortfall
- BRT was funded for 2015 completion

Recommendations for both projects are included in this study

LEGEND

- | | | | |
|--|-----------------------------------|--|------------------------|
| | Light Rail Starter Line / Station | | Study Area |
| | Tempe Transportation Center | | City Boundary |
| | High Capacity Transit Area | | Union Pacific Railroad |
| | Rural BRT | | |





Alternatives Analysis: Purpose

■ Transit Technologies

- Light Rail Transit
- Commuter Rail
- Modern Streetcar
- Bus Rapid Transit



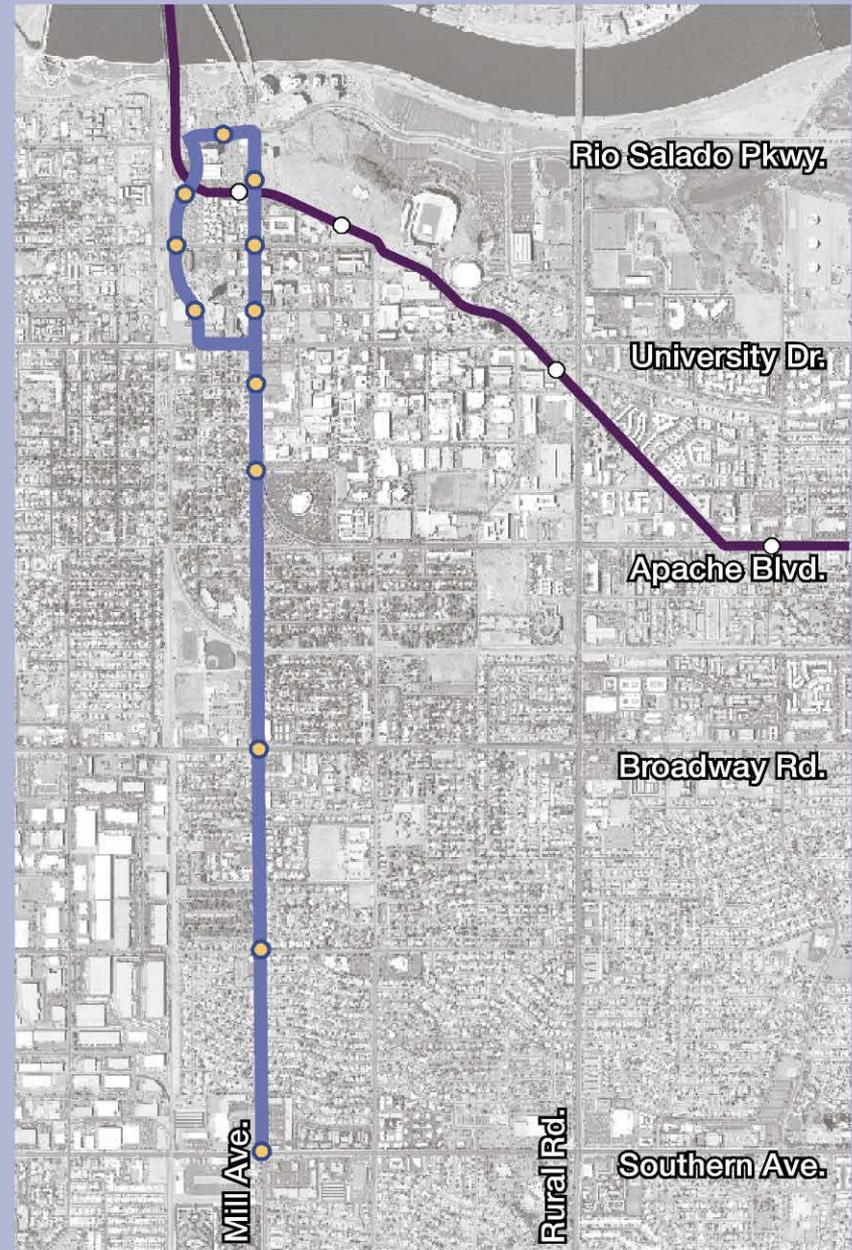
■ Alignment/Route

- Rural
- McClintock
- Mill
- Kyrene
- Tempe Branch UPRR





Proposed Tempe South Locally Preferred Alternative: Modern Streetcar



LEGEND

-  METRO Light Rail Line/Station
-  Modern Streetcar/Stop - Mill/Ash Loop



Proposed Tempe South Modern Streetcar



LEGEND					
	METRO Light Rail Line/Station		Modern Streetcar Phase 1/Stop		Proposed Park-and-Ride
	Transit Center		Future Phase		City Boundary
	Study Area		Future High Capacity Transit		Union Pacific Railroad





What is Modern Streetcar?

- Fixed-guideway electric rail system
- Operates in mixed traffic
- Articulated for tight radii turns
- Smaller than light rail vehicle
- 130 passengers per vehicle (35 seated / 95 standing)
- Typically operates as a single car unit
- Simple stations
- Catalyst for economic development





Modern Streetcar Ridership & Cost Estimate



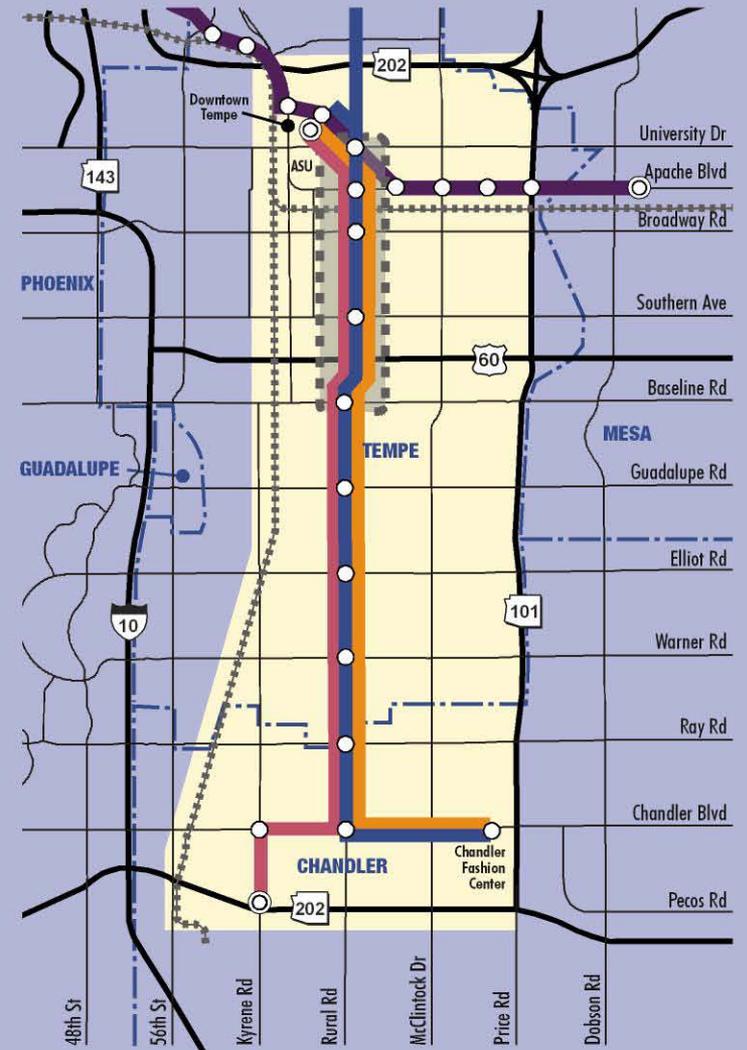
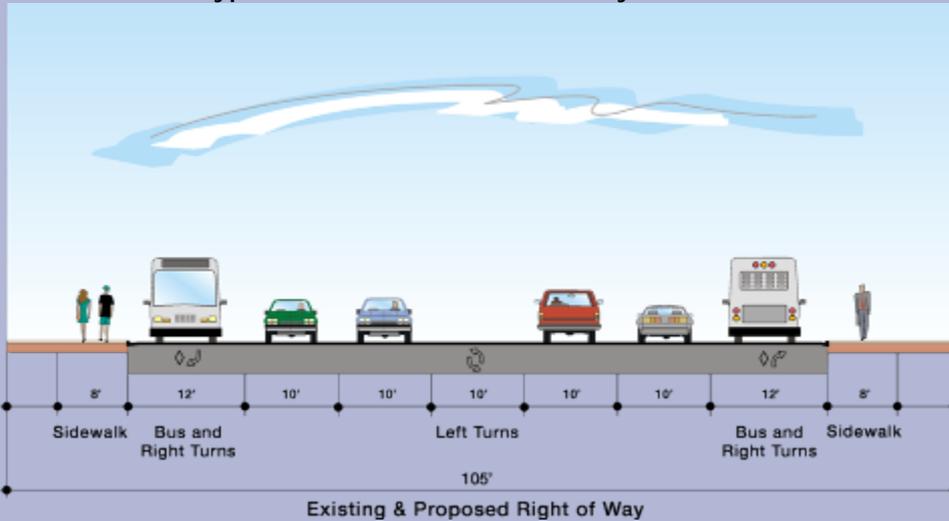
- Ridership (opening day):
 - 1,100 to 1,600 per day
 - Doesn't include special events
- Capital: TLCP Budget = \$162 m (YOE \$'s)
 - 27% Regional (Prop 400)
 - 73% Federal (Small Starts, CMAQ)
 - Cost Estimate - \$151 m to \$160 m
- O & M: \$3.6 m per year (in \$2017 dollars)
 - City of Tempe
 - Farebox



Rural Road BRT



Typical Cross Section - University to Baseline



LEGEND

- Light Rail Starter Line / Station
- Semi-exclusive Lane
- Bus Route 72
- BRT - Chandler Mall to Tempe Transportation Center
- BRT - Kyrene/202 to Tempe Transportation Center
- BRT Station
- Transit Center
- Study Area
- Union Pacific Railroad
- City Boundary

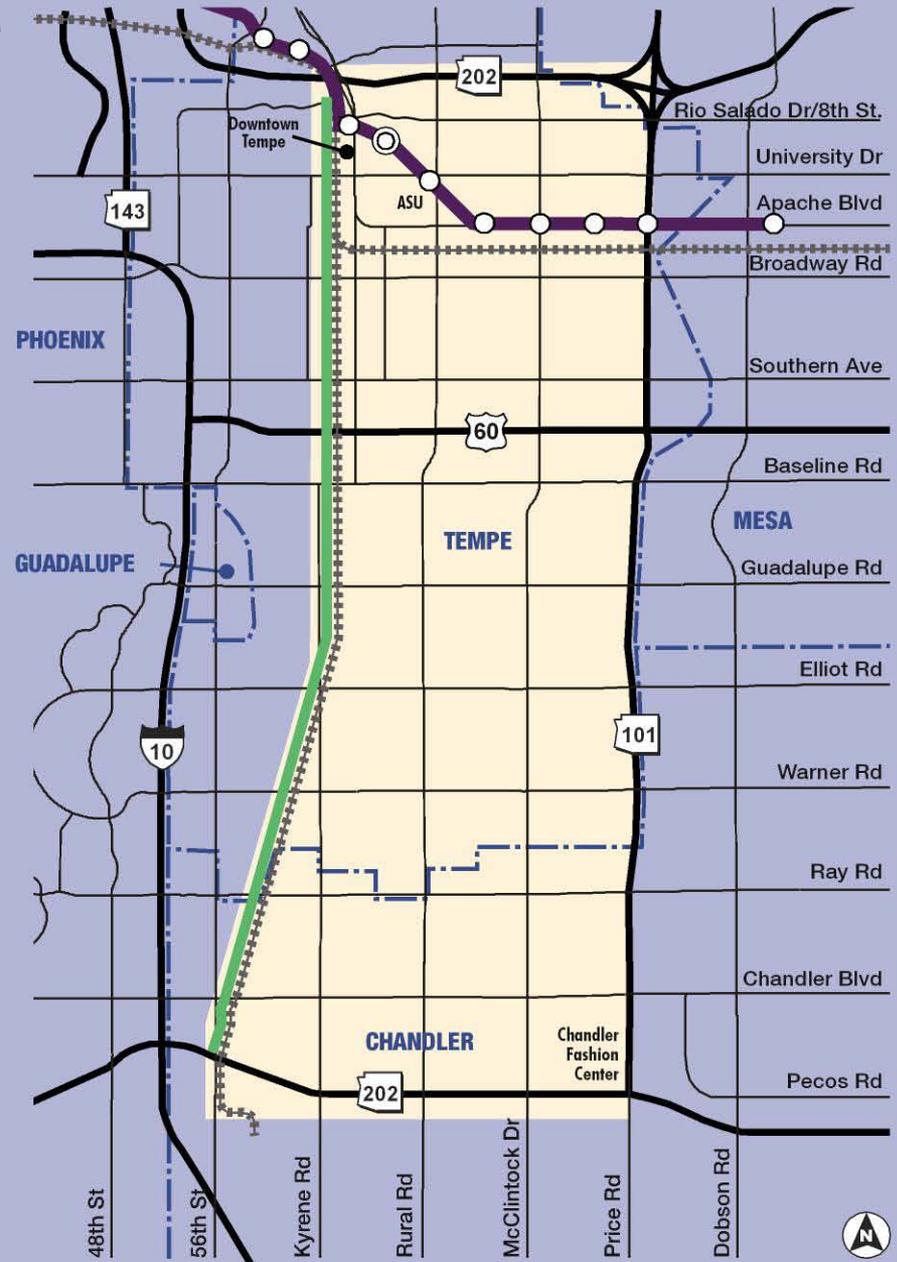


Potential Future Commuter Rail

- Further consideration of Commuter Rail along the UPRR Tempe Branch as part of the regional planning process

LEGEND

- Light Rail Starter Line/Station
- Commuter Rail
- Tempe Transportation Center
- Study Area
- City Boundary
- Union Pacific Railroad





Study Recommendations

- **Endorsements**
 - **Tempe**
 - Transportation Commission
 - Ad-Hoc Advisory Committee
 - City Council
 - **Chandler**
 - Transportation Commission
 - City Council
 - **METRO**
 - Board of Directors (acceptance of study results)
 - **MAG**
 - Transit Committee
 - Transportation Review Committee
 - Management Committee
 - Transportation Policy Committee



Next Steps – Approval Process

- Council Actions
 - ✓ Tempe October 21
 - ✓ Chandler November 18
- Regional Actions
 - ✓ METRO Board November 17
 - MAG Regional Council December 8
- Small Starts Application Spring 2011



METRO

